

Ledgeview Farms Waste Storage Facility Draft Operation and Maintenance Plan

NOTE: When the new long term waste storage facility and other improvements at Ledgeview Farms is constructed this plan will be updated to reflect current management of the farm.

The plan for operation and maintenance of the long term manure storage facilities at the Home Farm and Heifer Site of Ledgeview Farms is as follows:

- A. The storage will be emptied periodically according to need and cropping schedule. A 590 Nutrient Management Plan (NMP) is in place. The manure will be applied to cropland according to the NMP currently in place.
- B. Long Term Waste Storage Facilities – When these facilities must be emptied the waste will first be agitated by several propeller type agitators. They will agitate until the solids have been brought into suspension. The mixture will then be loaded onto tankers or other land application equipment and land applied onto cropland or hosed to cropland and applied according to the current Nutrient Management Plan.

Concrete collection tank for lot runoff at Heifer Site – When this facility is at MOL the liquid wastewater in this facility will be pumped into land application equipment and applied onto cropland. When no more liquid can be removed an excavator will be used to remove the accumulated solids in the tank. The semi-solid manure will be loaded onto spreaders and will be applied to cropland according the current Nutrient Management Plan.

- C. Contingency: Clean rainfall will be diverted from the manure collection area and moved into the waterway. The waste storage facility shall be managed so that a minimum of 1 foot of freeboard will be maintained to account for unexpected volumes of water or when weather conditions prevent applying the manure onto cropland. In the event that levels exceed the maximum operating levels, manure will be transported or pumped to fields in area that will not pose a risk to the environment from manure application.
- D. Emergency Response Plan: In case of a spill or overflow at any of the animal production areas, an attempt will first be made to contain the overflow. This will be accomplished by diking the manure flow with feed. In case of a spill, this sand will be used to contain the spill. Following containment of the spill the DNR, the County Land Conservation Department and Township Chairman will be notified of the spill. The NMP contains more detailed Emergency Response procedures that will be implemented and can be found in the Emergency Response Tab.

- E. Inspection and Monitoring
1. Concrete manure storage facilities will be inspected for the following on a weekly basis:
 - Cracks in the concrete walls, tops/lids and floors (when emptied)
 - Leakage around the outside
 - Movement in the walls
 - Rodent damage to any of the sub-concrete slopes
 2. Earthen waste storage facilities will be inspected for the following on a weekly basis:
 - Deterioration or erosion of any of the exterior slopes.
 - Rodent damage to any of the earthen slopes
 - Deterioration or erosion of any of the interior slopes.
 - Leakage around the outside
 - Trees or shrubs growing in the banks
 3. These manure storage facilities will be monitored as follows:
 - The level of manure in the manure storage shall be monitored and recorded weekly. The record shall show the distance from the manure level to the maximum operating level. A system shall be installed that will show the maximum operating level of the manure storage.
- F. All storage facilities will be fenced and signed according to the requirements set forth by the County Land Conservation Department.